

<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/690,560	NAKAHARA ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Khanh Tran	2611	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the Amendment filed on 07/09/2007.
2. ☒ The allowed claim(s) is/are 1-15, 17 and 19-20, which have been renumbered as claims 1-18.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

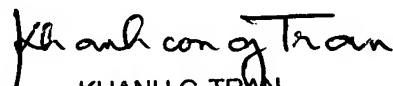
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |  |  |
|--|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)   | 5. <input type="checkbox"/> Notice of Informal Patent Application                      |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),<br>Paper No./Mail Date _____    | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment                    |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance   |
|  | 9. <input type="checkbox"/> Other _____.   |

  
 KHANH C. TRAN  
 PRIMARY EXAMINER

1. The Amendment filed on 07/09/2007 has been entered. Claims 1-15, 17 and 19-20 are pending in this Office action.

2. Claims 17 and 19-20 have been renumbered as claims 16-18, respectively.

### ***Response to Arguments***

3. Applicant's arguments, see Applicants' Remarks, filed on 07/09/2007, with respect to claims 1-10, 13 and 15-20 have been fully considered and are persuasive. The rejection of claims 1-10, 13 and 15-20 has been withdrawn.

### ***Reasons for Allowance***

The following is an examiner's statement of reasons for allowance:

4. Regarding claim 1, claim is allowable over prior art of record because the cited references taken individually or in combination cannot teach or suggest a phase error correction circuit for correcting a phase error in an input signal having a frame structure containing a preamble, unique word, and data, said phase error correction circuit comprising a combination of uniquely distinct elements as set forth in the application claim.

5. Regarding claim 17, claim is allowable over prior art of record because the cited references taken individually or in combination cannot teach or suggest a receiver

for receiving a digitally-modulated signal including a phase error correction circuit comprising a combination of uniquely distinct elements as set forth in the application claim.

6. Regarding claim 19, claim is allowable over prior art of record because the cited references taken individually or in combination cannot teach or suggest a receiver for receiving a digitally-modulated signal including a phase error correction circuit comprising a combination of uniquely distinct elements as set forth in the application claim.

7. Regarding claim 20, claim is allowable over prior art of record because the cited references taken individually or in combination cannot teach or suggest a signal transmission method comprising the uniquely distinct step "generating a frame-structured data by adding, in front of each data to be transmitted which is split into units of a predetermined length, a preamble which alternates from symbol to symbol, and a specific pattern selected so as not to allow a predetermined length of symbol-to-symbol alternations to occur even in the presence of a symbol error".

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

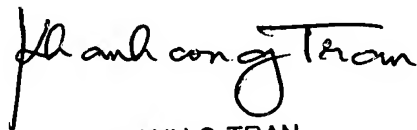
### **Conclusion**

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khanh Tran whose telephone number is 571-272-3007. The examiner can normally be reached on Monday - Friday from 08:00 AM - 05:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Shuwang Liu can be reached on 571-272-3036. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

KCT



KHANH C. TRAN  
PRIMARY EXAMINER

09/20/2007  
AU 2611